

QUELSTOP CE MARKED INTUMESCENT ACOUSTIC ACRYLIC SEALANT

QuelStop CE Marked Intumescent Acrylic Sealant is a water-based intumescent acrylic used to provide a fire rated linear joint or gap seal, and to maintain the fire rating of walls and floors where they have been penetrated by services as part of the QuelStop Fire Batt System or direct to the substrate.



QuelStop CE Marked Intumescent Acrylic Sealant cartridges



QuelStop Intumescent Acrylic Sealant used as part of the QuelStop System

FEATURES & BENEFITS

- Used as a fundamental part of the QuelStop Fire Batt system
- Suitable for use around cables, cable bunches, cable trays, cable ladders and non-combustible pipes
- Suitable for use in flexible walls, rigid walls and floors
- Suitable for linear joints up to 50mm wide in concrete to concrete/steel/softwood
- Suitable for linear joints up to 20mm wide with gypsum board/steel headtrack
- Suitable for low movement joints and remains flexible - maximum movement capability is $\leq 7.5\%$
- Suitable for use around wooden fire door frames
- Up to 4 hour fire rating (EI240)
- CE Marked

STANDARDS & APPROVALS

- Fire resistance testing to BS EN 1366-3:2009
- Fire resistance testing to BS EN 1366-4: 2006
- Classified to EN 13501-2: 2007 + A1: 2009
- CE Marked
- ETA: 17/0788 & ETA: 17/0789
- Acoustic tested to EN 10140 to 48dB
- Air Permeability testing to EN 1026 to 600Pa – 100Pa 0.0/0.0m³/h/m²
- VOC Tested – ASTM D2369-10, LEED 2009-EQ041 SCAQMD



The Warringtonfire Logo displayed is the trademark of Warringtonfire registered in the United Kingdom. The Warringtonfire Logo is evidence that the products denoted as 'Tested by Warringtonfire' were tested to BSEN 1366-3: 2009 in England between September 22nd 2015 and January 7th 2021



This product is CE Marked.

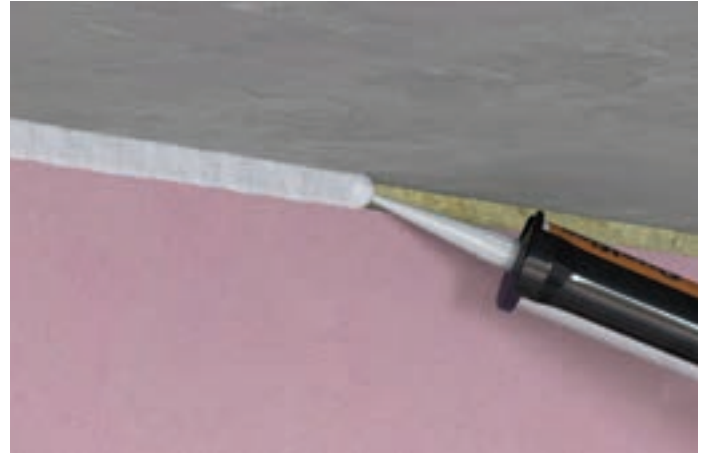
APPLICATION

QuelStop Intumescent Acrylic Sealant is a fundamental part of the QuelStop Fire Batt System and should be applied to all cuts, joints and exposed edges of the batt and can also be used for sealing around services such as cable, cable bundles, trays, ladders and non-combustible pipes, either as part of a seal directly within the wall substrate or as part of a QuelStop Fire Batt Seal.

QuelStop Intumescent Acrylic Sealant can also be used as a linear joint seal in a range of applications between concrete and concrete, steel or softwood and also to a gypsum board headtrack and around wooden fire door frames.



QuelStop CE Marked Intumescent Acrylic Sealant used in conjunction with QuelStop Fire Batt



QuelStop CE Marked Intumescent Acrylic Sealant used as a head of wall linear joint seal

INSTALLATION

All surfaces must be clean and free of any bond breaking contamination prior to application of the sealant.

The sealant should not be applied if the ambient temperature is below 5°C or above 40°C, as the adhesion may be impaired.

The sealant is fast curing, approximately 15 – 60 minute tack free time, depending on the temperature and humidity.

In linear joint applications, mineral wool or PE backing rod, can be used as a backing material to ensure the correct depth of QuelStop CE Marked Intumescent Acrylic Sealant is applied in order to achieve the required performance.

For full details on application and installation, refer to all available documentation, installation details and the Quelfire Technical team.

COLOURS

Available as standard in white. Other colours are available subject to M.O.Q.

SIZES

- 310ml cartridge (25 per box)
- 600ml foil pack (15 per box)

YIELD

Joint Size (mm)	Depth of Sealant (mm)	Yield per 310ml Cartridge (m)	Yield per 600ml foil (m)
10	10	3.10	5.90
20	15	1.03	1.95
30	20	0.51	0.95

ADDITIONAL DATA

Slump	5mm after 1hour in 30mm joints	Application Temperature	+5°C to +40°C
Shrinkage	Approximately 12%	Tack Free	30 minutes at 23°C and 50% relative humidity
Cure Rate	3mm per day at 50% relative 23°C	VOC % Nonaqueous volatiles (105°C)	3.6
Specific Gravity	1.56 – 1.66 g/cm ³	Acoustic Rating	Up to Rw (C;Ctr) :63 (-2;-7) dB

PACKAGING AND STORAGE

QuelStop Intumescent Acrylic Sealant is supplied in disposable cartridges or foils, packaged in cardboard boxes and must be stored in ventilated, cool and dry conditions.

HEALTH & SAFETY

QuelStop Intumescent Acrylic Sealant should be handled and applied wearing appropriate protective clothing, including gloves, dust mask, safety glasses, to guard against dust inhalation, eye and skin irritation.

For further information, please refer to the Material Safety Data Sheet, available on request.

Technical Support & Guidance:

Should you require any further information regarding this product, please do not hesitate to contact the technical department at Quelfire Ltd.

Tel: **0161 928 7308**. Email: technical@quelfire.co.uk

Please be aware that this document is intended for general information only and all details should be checked against all relevant supporting test evidence, certification and installation guidelines. Use of alternative components or deviations from the instructions in any way is likely to mean that the installation will not comply with the assessed rating.

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All information contained in this document is given in good faith and is provided for guidance only. Any drawings provided are for illustrative purposes only. As Quelfire Ltd has no control over the methods or competence of installation and of prevailing site conditions, no warranties, expressed or implied, is intended to be given as to the actual performance of the product mentioned or referred to herein and no liability whatsoever will be accepted for any loss, damage or injury arising from the use of the information given.

CERTIFICATE OF CONSTANCY OF PERFORMANCE

Issued by DBI Certification, notified body No. 2531.

In compliance with *Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011* (the Construction Products Regulation or CPR), this certificate applies to the construction product

QuelStop HPE Sealant

Scope: Fire Stopping and Sealing Product: Penetration Seals

Placed on the market under the name or trade mark of:

**Quelfire Limited
Unit 3 Millbuck Way
Springvale Industrial Estate
Sandbach, Cheshire, CW11 3HT
United Kingdom**

and produced in the manufacturing plant:

CPA50052

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in the

ETA-20/1059 issued 2020-12-09 on the basis of EAD 350454-00-1104


under system 1 for the performance set out in the ETA are applied and that the factory production control conducted by the Manufacturer is assessed to ensure the


Constancy of performance of the construction product.

Date of issue: 2022-01-24.

This certificate will remain valid as long as neither the ETA, the EAD, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly unless suspended or withdrawn by the notified product certification body.

This certificate was first issued 2022-01-24.


Lene Skovbjerg
Responsible for evaluation


Thomas Anthony Wilson
Responsible for certification decision

The certificate shall be reproduced in extenso
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DECLARATION OF PERFORMANCE

According to Annex III of Regulation (EU) Nr. 305/2011 (Construction Products Regulation)

QUELFIRE QHPE- QUELSTOP HPE SEALANT

1. Unique identification code of the product-type:

Quelfire HPE Sealant

2. Type, batch or serial number as required pursuant to Article 11(4):

See batch number displayed on the product

3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification:

Fire stopping and sealing product for penetration seals, see ETA 20/0155

Cable penetrations	Insulated & non insulated, cables, cable trays & cable ladders	The field of application has to comply with the content of the related ETA 20/0155
Pipe penetrations	Insulated & non insulated plastic & metal pipes	The field of application has to comply with the content of the related ETA 20/0155

4. Name, registered trade name or registered trade mark and contact address as required pursuant to Article 11(5): Quelfire

Ltd, Unit 3, Millbuck Way, Springvale Industrial Estate, Sandbach, Cheshire, CW11 3HT,
Tel: 0161 928 7308, Email: sales@quelfire.co.uk

5. Authorised representative: n.a.

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V: System 1

7. Harmonised standard: n.a.

8. In the case of the declaration of performance concerning product covered by a Harmonised Standard and/or ETA:

Warrington Certification Ltd issued ETA Number 20/0155 on the basis of Guideline for European Technical Approval of Fire Stopping and Fire Sealing Products: EAD 350454-00-1104 Issue September 2017 performed initial and continuous surveillance of the place of manufacture and the factory production control implemented, sampled product and witnessed initial type testing under system 1 and issued the Certificate of Constancy of Performance

9. Declared performance:

Essential Characteristic	Declared performance/Harmonised technical specification
Reaction to fire	No performance assessed
Resistance to fire	Resistance to fire performance and field application in accordance with EN 13501-2 see ETA 20/0155, Clause 2.2.1
Air Permeability	Tested in accordance with EN 1026, see ETA 20/0155, Clause 2.2.3 (Pressure Pa 50) – 0.2(m ³ /h), (pressure Pa 600) – 2.4(m ³ /h)
Dangerous substances	See ETA 20/0155, Clause 2.2.5
Airbourne Sound Insulation	Tested in accordance with EN ISO 10140-2:2010 & EN ISO 140-3 & EN ISO 717-1, see ETA 20/0155, Clause 2.2.10 – Rw (C;Ctr) 54 (-1;-6)
Durability and serviceability	Z ¹ (0/+40°C) intended for use at internal conditions with high humidity (85%) in accordance with EOTA Technical Report – TR024 see ETA 20/0155, Clause 2.2.9

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 6. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer.

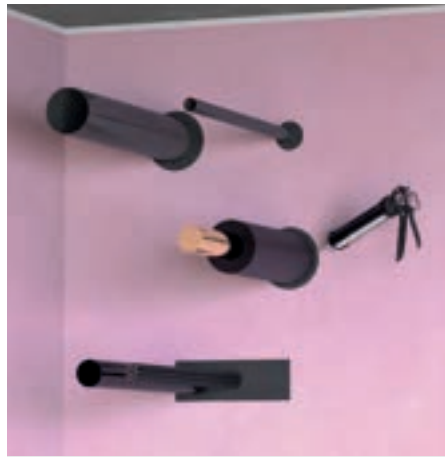


Keith Wells
Managing Director
Quelfire Ltd



Darryl Wells
Product Development
Quelfire Ltd

This installation guide is intended for general information only and all details should be checked against relevant supporting test evidence and certification.



QuelStop CE Marked HPE Graphite Sealant forms part of a lifesaving system designed to prevent the spread of fire through compartment walls and floors, it is therefore essential that the product is installed in a responsible and workmanlike manner with life safety in mind.

QuelStop HPE Graphite Sealant can be used for sealing directly around services such as cable, cable bundles, trays, ladders and non-combustible pipes, either as part of a seal directly within the wall or floor substrate or as part of a QuelStop Fire Batt Seal in either case the annulus (the width of the seal around the service) and the depth of the seal is critical in providing the specified fire performance.

QuelStop HPE Graphite Sealant can also be used as a linear joint seal in which cases, a mineral wool or PE backing rod, can be used as a backing material to ensure the correct depth of sealant is applied in order to achieve the required performance.

Key considerations before installing QuelStop HPE Graphite Sealant:

- ❗ Ensure that the aperture, services or joint in question are tested with QuelStop Intumescent HPE Graphite Sealant and the site conditions are within the application specification.
- ❗ The supporting construction must be installed in accordance with the manufacturer's guidelines and must be capable of achieving the required fire rating of the firestop.
- ❗ All services should be adequately supported either side of the firestop to ensure that no load is transferred onto the firestop seal.
- ❗ Check that any services are compatible with the sealant - note for example that CPVC sprinkler pipes should not come into contact with non-approved sealants, QuelStop HPE is however approved for use and compatibility by both Spears and Lubrizol.
- ❗ Consider any movement that might occur in the joint to be sealed. This should include thermal, wind pressures, settlement and differential movement of components.
- ❗ Consider the performance capabilities of the sealant, movement capabilities, adhesion properties and chemical resistance, etc
- ❗ Consider the location and environment of the joint to be sealed. Exposure to temperature extremes, ultraviolet light, chemical attack, standing water and vibration.

- 🔧 Ensure there is adequate space and accessibility to apply and tool the sealant.
- 🔧 Consider the use of backing materials to ensure the correct depth of the QuelStop HPE Graphite Sealant is applied in order to achieve the required performance.
- 🔧 Where the QuelStop HPE Graphite Sealant is being used in conjunction with other Quelfire products such as QuelStop Fire Batt, this document should be read in conjunction with the relevant supporting details and installation guides.

Installation principles of QuelStop CE Marked HPE Graphite Sealant

- 🔧 Before application, surfaces should be free of any dust, grease, debris and bond breaking contamination and consideration could be given to the use of a primer. On good, solid substrate priming is not normally required, though you should refer to the substrate compatibility requirements.
- 🔧 The sealant should not be applied if the ambient temperature is below 5°C or above 40°C, as the adhesion may be impaired.
- 🔧 The sealant should be pumped into position directly from an appropriate gun and installed to the specified annulus or gap.
- 🔧 A spatula, or similar instrument, can be used to gently compact the seal and ensure a smooth finish.

QuelStop HPE Graphite Sealant has been tested in a number of different scenarios both in conjunction with QuelStop Fire Batt as a single, double and pattress batt installation and also direct to the wall or floor substrate. The following pages show the following typical scenarios but should be read in conjunction with the standard installation details and other supporting documentation which sets out the scope of application and performance information:

- 🔧 QuelStop HPE Graphite Sealant to services penetrating concrete floors with correct size hole.
- 🔧 QuelStop HPE Graphite Sealant to services penetrating walls with correct size hole.
- 🔧 QuelStop HPE Graphite Sealant & QuelStop Fire Batt to services penetrating walls with an oversized hole.

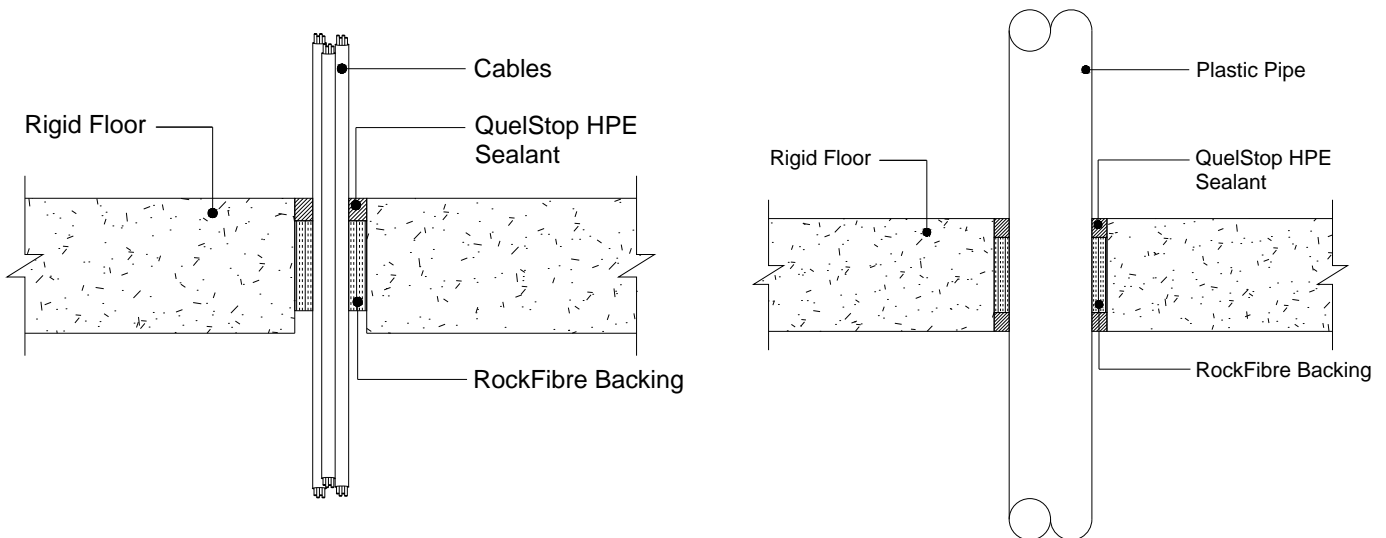
Installation of QuelStop HPE Graphite Sealant to services penetrating concrete floors with correct size hole.

Quelfire Products used:

 QuelStop HPE Graphite Sealant

- 1.** Check the services and aperture is clean of any debris and remove dust from all edges.
- 2.** Install rockfibre backing material as per the specification by packing around the services and ensuring that the rockfibre backing material is recessed from the face of the seal by the required depth of QuelStop HPE Graphite Sealant.
- 3.** Apply the QuelStop HPE Graphite Sealant to the annulus around the services ensuring the full depth is achieved using a suitable applicator gun.
- 4.** Use a spatula to lightly compact the seal and smooth off the seal leaving a professional and neat finish.
- 5.** Where a double seal is required – both sides of the floor - repeat steps 1-4 on the other side of the floor.

Typical QuelStop HPE Sealant direct to floor installation detail:



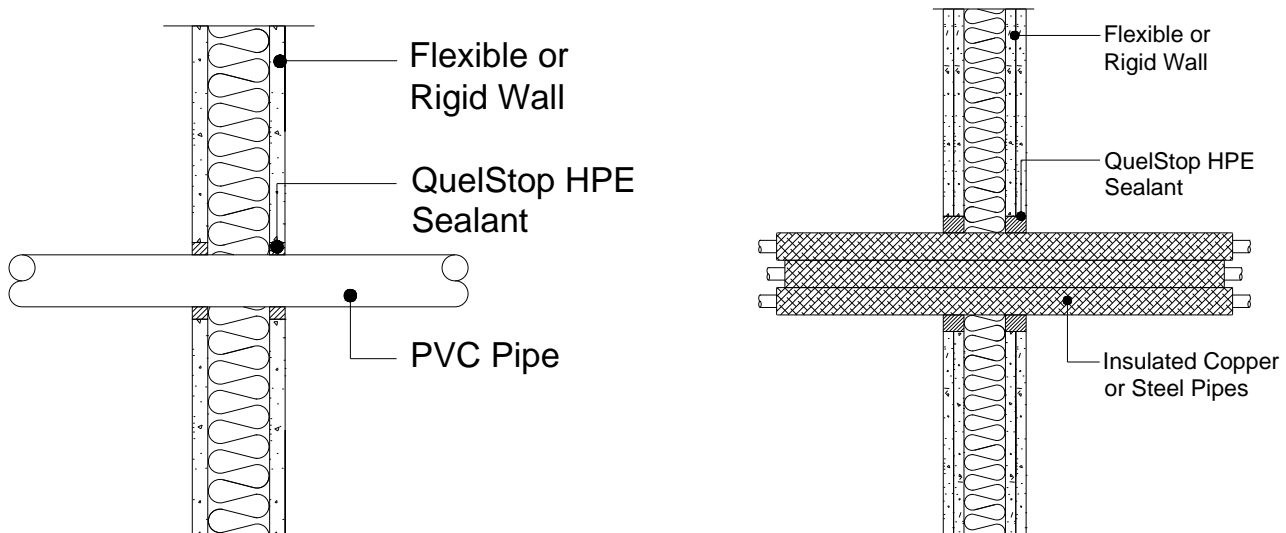
QuelStop HPE Graphite Sealant to services penetrating walls with correct size hole.

Quelfire Products used:

 QuelStop HPE Graphite Sealant

- 1.** Check the wall specification is in accordance with the tested scope of application and any required insulation/backing material is installed.
- 2.** Check the services and aperture is clean of any debris and remove dust from all edges.
- 3.** Ensuring that the insulation/backing is not restricting the aperture and that it is recessed from the face of the seal by the required depth of QuelStop HPE Graphite Sealant.
- 4.** Apply the QuelStop HPE Graphite Sealant to the annulus around the services ensuring the full depth is achieved using a suitable applicator gun.
- 5.** Use a spatula to lightly compact the seal and smooth off the seal leaving a professional and neat finish.
- 6.** Repeat steps 1-5 on the other side of the wall.




Typical QuelStop HPE Sealant direct to wall installation detail:



QuelStop HPE Graphite Sealant INSTALLATION INSTRUCTIONS

QuelStop HPE Graphite Sealant & QuelStop Fire Batt to services penetrating walls and floors with an oversized hole.

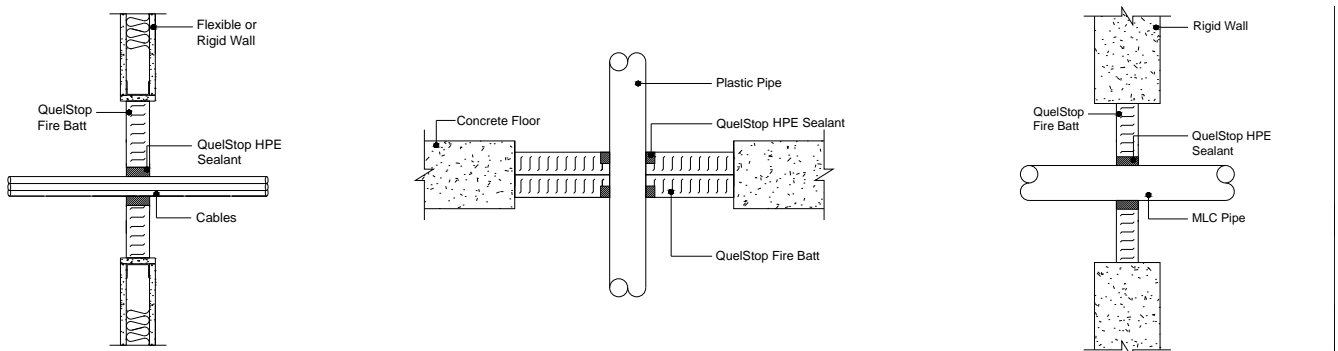
Quelfire Products used:

-  QuelStop HPE Graphite Sealant
-  QuelStop Fire Batt
-  QuelStop Intumescent Acrylic Sealant

The core principles behind installing QuelStop HPE Sealant in conjunction with QuelStop Batt, in whatever scenario the batt is installed, (Single, Double or Pattress) remain the same:

- 1.** Check the services and sides of the aperture is clean of any debris and remove dust from all edges
- 2.** Cut the QuelStop Fire Batt to suit the aperture making sure allowance is made for the correct annulus (and depth) of QuelStop HPE Sealant – this may be between 10 and 20mm annulus and may be between 25mm deep and the full depth of each batt. Refer to the specific tested detail to determine the specific requirements.
- 3.** Install the QuelStop Fire Batt and Acrylic Sealant system making reference to the relevant documentation and installation guides.
- 4.** Apply the QuelStop HPE Graphite Sealant to the annulus around the services ensuring the full depth is achieved using a suitable applicator gun.
- 5.** Use a spatula to lightly compact the seal and smooth off the seal leaving a professional and neat finish.
- 6.** Finally, touch up any damage to the QuelStop Fire Batt coating that might have occurred during installation with Ablative Coating or QuelStop Acrylic Sealant.
- 7.** Where a double batt or pattress batt seal is required, repeat steps 1-6 on the other side of the wall or floor.

Typical QuelStop HPE Sealant and Fire Batt installation detail:



ADDITIONAL DATA

Density	Ca. 1.23 – 1.33g/cm ³
Shore Hardness A	68
Colour	Black
Expansion Temperature	Ca. 180°C
Expansion Pressure	7 bar
Expansion	Up to 20 times
Skin Time	15 minutes at 25°C / 50% Relative Humidity
Cure Time	1.7mm per 24 hrs
Shelf Life	18 months unopened
pH	06 - 09
Air Permeability	600Pa – 100Pa 11.1/16.7 m ³ /h/m ²
Acoustics	Rw(C;Ctr): 52 (-1;-6) dB
Durability	Type Z1, intended for use in internal conditions

Packaging & Storage:

QuelStop HPE Graphite Sealant is supplied in disposable cartridges, packaged in cardboard boxes and must be stored in ventilated, cool and dry conditions.

Health & Safety:

QuelStop HPE Graphite Sealant should be handled and applied wearing appropriate protective clothing, including gloves, dust mask, safety glasses, to guard against dust inhalation, eye and skin irritation.

For further information, please refer to the Material Safety Data Sheet, available on request.

Technical Support & Guidance:

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MATERIAL SAFETY DATA SHEET

Product name	QuelStop CE Marked HPE Sealant
Product Code(s)	QHPE310
Revision Date	01/01/2021
Revision number	02

Section 1: Identification of the substance/mixture and of the company / undertaking

1.1. Product identifier

Product name	QuelStop CE Marked HPE Sealant
Product Code	QHPE310
Type of Product	Sealant
Colour	Black

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of Substance/Mixture	PC1: Adhesives, sealants.
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1.3. Details of the supplier of the safety data sheet

Company Name	Quelfire Limited Springvale Industrial Estate Millbuck Way Sandbach CW11 3HT
Tel	0161 928 7308
Fax	0161 924 1340
Email	technical@quelfire.co.uk

1.4. Emergency telephone number


Emergency telephone number	0161 928 7308 (Office hours only)
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Section 2: Hazards Identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]	Serious eye damage/ eye irritation, Category 2 – H319 Reproductive Toxicity, Category 2 – H361 Hazardous to aquatic environment – Chronic Hazard, Category 3 – H412 Full text of H Statements, see section 16
Adverse physicochemical, human health and environmental effects	Causes serious eye irritation. Harmful to aquatic life with long lasting effects. Suspected of damaging fertility of the unborn child.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 [CLP]	Hazard pictograms (CLP): 
Label according to Regulation	Signal Word (CLP):

MATERIAL SAFETY DATA SHEET

(EC) No. 1272/2008 [CLP]	Hazardous Ingredients:	Melamine
	Hazard Statements (CLP):	H319 – Causes serious eye irritation. H361 – Suspected of damaging fertility or the unborn child H412 – Harmful to aquatic life with long lasting effects
	Precautionary statements (CLP):	P201 – Obtain special instructions before use P280 – Wear protective clothing, eye protection, face protection P308+P313 – IF exposed or concerned. Get medical advice/ attention
	EUH-statement	EUH208 – Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

2.3. Other hazards

No additional information available

Section 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product Identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Graphite	(CAS-No) 7782-42-5 (EC-No) 231-955-3	10-30	Not classified
Aluminium Hydroxide	(CAS-No) 21645-51-2 (EC-No) 244-492-7 (REACH No) 01-2119529246-39	10-30	Not classified
Melamine	(CAS No) 108-78-1 (EC-No) 203-615-4	1-10	Repr. 2, H361
Alkylphenol polypropylene glycol ether	(CAS No) 9064-15-7 (EC No) 696-008-2	1-10	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Chronic 2, H411

Section 4: First aid measures

4.1. Description of first aid measures

General	IF exposed or concerned. Get medical advice/ attention
Skin contact	Wash skin with plenty of water
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses. If present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/ attention
Ingestion	Call a poison centre or a doctor if you feel unwell.
Inhalation	Remove person to fresh air and keep comfortable for breathing

4.2. Most important symptoms and effects, both acute and delayed

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MATERIAL SAFETY DATA SHEET

Skin contact	There may be mild irritation at the site of contact
Eye contact	There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.
Ingestion	There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.
Inhalation	There may be irritation of the throat with a feeling of tightness in the chest.

4.3. Indication of any immediate medical attention and special treatment needed

Immediate/special treatment	Treat symptomatically
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Section 5: Fire-Fighting measures

5.1. Extinguishing media

Suitable Extinguishing Media	Water spray. Dry Powder. Foam. Carbon Dioxide
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5.2. Special hazards arising from the substance or mixture

Exposure hazards	Toxic fumes may be released
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5.3. Advice for fire-fighters

Advice for fire-fighters	Do not attempt to act without suitable protective equipment. Self-contained breathing apparatus. Complete proactive clothing.
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Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For Emergency responders	Do not attempt to act without suitable protective clothing - see section 8 'Exposure controls/ personal protection'.
For Non-emergency responders	Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid. Ventilate spillage area

6.2. Environmental precautions

Environmental	Avoid release to the environment
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6.3. Methods and materials for containment and cleaning up

Clean-up procedures	Take up liquid spill into absorbent material.
Other Information	Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

Reference to other sections	Refer to section 8 'Exposure controls/ personal protection' & Section 13 'Disposal considerations'.
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Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements	Ensure good ventilation of the workstation. Wear personal protective equipment. Avoid dust formation
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MATERIAL SAFETY DATA SHEET

Hygiene measures	Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	Store in cool, well ventilated area. Keep container tightly closed.
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7.3. Specific end use(s)

Specific end use(s)	No data available
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Section 8: Exposure controls/personal protection

8.1. Control parameters

Graphite	
United Kingdom – Occupational Exposure Limits	
WEL TWA (mg/m ³)	10 mg/m ³ inhalable dust
WEL STEL (mg/m ³)	4 mg/m ³
Aluminium Hydroxide (21645-51-2)	
United Kingdom – Occupational Exposure Limits	
WEL TWA (mg/m ³)	10 mg/m ³
WEL STEL (mg/m ³)	4 mg/m ³

8.2. Exposure controls

Engineering measures	Ensure there is sufficient ventilation of the area
Personal Protective Equipment	Dust Formation, Dust Mask, Gloves
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment
Hand protection	Protective gloves
Eye protection	Safety glasses. Ensure eye bath is to hand.
Skin protection	Protective clothing

Personal protective equipment symbol(s):



Environmental exposure controls:

Avoid release to the environment.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State	Liquid
Appearance	Paste
Colour	Grey

MATERIAL SAFETY DATA SHEET

Odour	No Data Available
Odour Threshold	No Data Available
pH	5 - 9
Relative evaporation rate (butylacetate=1)	No Data Available
Melting point	Not applicable
Freezing point	No Data Available
Boiling point	No Data Available
Flash point	No Data Available
Auto-ignition temperature	No Data Available
Decomposition temperature	No Data Available
Flammability (solid, gas)	Not applicable
Vapour pressure	No Data Available
Relative vapour density at 20°C	No Data Available
Relative density	1.3 – 1.4
Solubility	No Data Available
Partition coefficient n-octanol/ water (Log Pow)	No Data Available
Viscosity, Kinematic	No Data Available
Viscosity, dynamic	No Data Available
Explosive properties	No Data Available
Oxidising properties	No Data Available
Explosive limits	No Data Available

9.2. Other information

No data available

Section 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (See section 7)

10.5. Incompatible materials

Oxidising agents. Strong acids

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition should not be produced.

Section 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	Not classified
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MATERIAL SAFETY DATA SHEET

Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Not classified
Graphite (7782-42-5)	
LD50 oral rat	>2000 mg/kg
LD50, Mouse, long term, Inhalation, mouse, systemic	>10 mg/kg (hours Hours)
Aluminium Hydroxide (21645-51-2)	
LD50 oral rat	>2000 mg/kg bodyweight
LC50 inhalation rat	>2.3 mg/l
Melamine (08-78-1)	
LC50 inhalation rat	>5.19mg/l air animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: EU Method B.2 (Acute Toxicity Inhalation)
Skin corrosion/ Irritation	Not classified pH: 5 - 9
Serious eye damage/ Irritation	Causes serious eye irritation pH: 5 - 9
Respiratory or skin sensitisation	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Suspected of damaging fertility or the unborn child.
STOT-single exposure	Not classified
STOT-repeated exposure	Not classified
Aspiration hazard	Not classified

Section 12: Ecological information

12.1. Toxicity

Ecology – general	Harmful to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short term (acute)	Not classified
Hazardous to the aquatic environment, long term (chronic)	Harmful to aquatic life with long lasting effects.
Not rapidly degradable	

Graphite (7782-42-5)	
LC50 fish 1	>100 mg/l Test organisms (species): Danio rerio (Previous name: Brachydanio rerio)
EC50 Daphnia 1	>100 mg/l Test organisms (species): Daphnia Magna
EC50 72h algae (1)	>100 mg/l
EC50 72h algae (2)	>100 mg/l
NOEC (Chronic)	47 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
Melamine (108-78-1)	
LC50 fish 1	>3000 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 Daphnia 1	200 mg/l Test organisms (species): Daphnia Magna
EC50 72h algae (1)	325 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocellis subcapitata, Selenastrum capricornutum)
LOEC (Chronic)	>11 mg/l Test Organisms (species): Daphnia Magna Duration: '21 d'

MATERIAL SAFETY DATA SHEET

NOEC (Chronic)	≥11 mg/l Test Organisms (species): Daphnia Magna Duration: '21 d'
NOEC chronic fish	≥ 5.1 mg/l Test organisms (species): Pimephales promelas Duration: '36 d'

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

Ecology - soil	Readily absorbed into soil.
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12.5 Results of PBT and vPvB assessment

This substance/ mixture does not meet the PBT criteria of REACH Regulation, annex XIII

12.6. Other adverse effects

No additional information available

Section 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	Disposal must be done according to official regulations.
Waste treatment methods	Dispose of contents/ container in accordance with licensed collector's sorting instructions

Section 14: Transport information

In accordance with ADR/ RID/ IMDG/ IATA/ ADN	
ADR	Not Applicable
RID	Not Applicable
IMDG	Not Applicable
IATA	Not Applicable
ADN	Not Applicable
No supplementary information available	

14.6. Special Precautions for user

Overland Transport	Not Applicable
Transport by sea	Not Applicable
Air transport	Not Applicable
Inland waterway transport	Not Applicable
Rail transport	Not Applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code.

Not Applicable

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list

MATERIAL SAFETY DATA SHEET

Contains no REACH annex XIV substances
Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 th July 2012 concerning the export and import of hazardous chemicals
Contains no substance subject to Regulation (EU) No 209/1021 of the European Parliament and of the Council of 20 th June 2019 on persistent organic pollutants.

15.1.2 National Regulations

No additional information available

15.2. Chemical Safety Assessment

Chemical Safety Assessment	No chemical safety assessment has been carried out
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Section 16: Other information

Abbreviations and acronyms	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of dangerous goods by Road
ATE	Acute Toxicity Estimate
BLV	Biological Limit Value
CAS-No.	Chemical Abstract Service Number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 272/2008
DMEL	Derived Minimal Effect Level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
EC-No.	European Community Number
EN	European Standard
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative
WGK	Water Hazard Class

Full Text of H- and EUH- statement

EUH208	Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.
Acute Tox. 4 (Oral)	Acute toxicity (Oral), Category
Aquatic Chronic 2	Hazardous to aquatic environment – Chronic Hazard, Category 2

MATERIAL SAFETY DATA SHEET

Aquatic Chronic 3	Hazardous to aquatic environment – Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/ eye irritation, category 1
Eye Irrit. 2	Serious eye damage/ eye irritation, category 2
Repr. 2	Reproductive toxicity, Category 2
H302	Harmful if swallowed
H318	Causes serious eye damage
H319	Causes serious eye irritation
H361	Suspected of damaging fertility or the unborn child
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects

The Classification complies with ATP 12

Other information	This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.
Legal disclaimer	The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

QUELSTOP CE MARKED INTUMESCENT HPE GRAPHITE SEALANT

QuelStop Intumescent HPE Graphite Sealant is a high expansion intumescent acrylic based graphite sealant used to provide a fire rated linear joint or gap seal and to maintain the fire rating of walls and floors where they have been penetrated by services as part of the QuelStop Fire Batt System or direct to the substrate.



QuelStop Intumescent HPE Graphite Sealant cartridges



QuelStop Intumescent HPE Graphite Sealant used around service penetrations through walls



QuelStop Intumescent HPE Graphite Sealant used around service penetrations through floors

FEATURES & BENEFITS

- Up to 4 hour fire rating (EI240)
- CE Marked
- Suitable for use in flexible walls, rigid walls and floors
- Suitable for use in QuelStop Fire Batts
- Suitable for use around cables, cable bunches, cable trays and cable ladders
- Suitable for use around plastic pipes, metallic pipes and insulated non-combustible pipes
- Suitable to use with Lubrizol CPVC piping systems and materials, such as FlowGuard® pipe and fittings and BlazeMaster® fire sprinkler systems
- Suitable to use with Spears® CPVC Products, such as FlameGuard®, LabWaste® and EverTuff®
- Suitable for linear joints up to 20mm wide
- Suitable for low movement joints of $\leq 7.5\%$ and remains flexible

STANDARDS & APPROVALS

- Fire resistance testing to BS EN 1366-3:2009
- Fire resistance testing to BS EN 1366-4: 2006
- Classified to EN 13501-2: 2007 + A1: 2009
- CE Marked
- FBC™ System Compatible
- Spears® product compatible



The Warringtonfire Logo displayed is the trademark of Warringtonfire registered in the United Kingdom. The Warringtonfire Logo is evidence that the products denoted as 'Tested by Warringtonfire' were tested to BSEN 1366-3: 2009 in England between September 22nd 2015 and January 7th 2021.



This product is CE Marked.



FBC™ System Compatible indicates that this product has been tested, and is monitored on an ongoing basis, to assure its chemical compatibility with FlowGuard Gold®, BlazeMaster® and Corzan® piping systems and products made with TempRite® Technology. The FBC System Compatible Logo, FBC™, FlowGuard Gold®, BlazeMaster®, Corzan® and TempRite® are trademarks of Lubrizol Advanced Materials, Inc. or its affiliates.

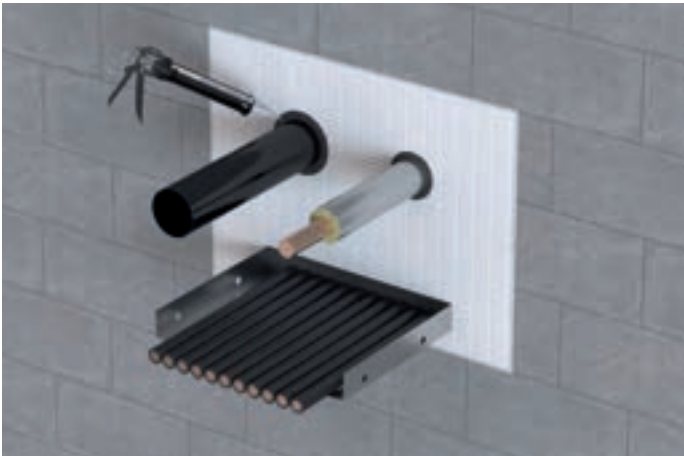


Tested and evaluated by Spears® for acceptable use with Spears® CPVC Products including FlameGuard®, LabWaste® and EverTuff®.

APPLICATION

QuelStop CE Marked HPE Graphite Sealant may be used for sealing around services such as cable, cable bundles, trays, ladders, combustible pipes, combustible insulations, either as part of a seal directly within the wall or floor substrate or as part of a QuelStop Fire Batt Seal.

QuelStop CE Marked HPE Graphite Sealant can also be used as a linear joint seal in which cases, a mineral wool or PE backing rod, can be used as a backing material to ensure the correct depth of QuelStop CE Marked HPE Graphite Sealant is applied in order to achieve the required performance.



QuelStop Intumescent HPE Graphite Sealant used in conjunction with QuelStop Fire Batt around service penetrations through walls



QuelStop Intumescent HPE Graphite Sealant used in conjunction with QuelStop Fire Batt around service penetrations through floors

INSTALLATION

All surfaces must be clean and free of any bond breaking contamination prior to application of the sealant.

The sealant should not be applied if the ambient temperature is below 5°C or above 40°C, as the adhesion may be impaired.

The QuelStop Intumescent HPE Graphite Sealant should be installed to the correct annulus and depth which depends on the penetrating services / material specification. The total annular space should be filled with compacted QuelStop HPE Sealant which is applied through the use of a standard sealant gun and once applied should be lightly compacted and smoothed off with a spatula to produce a professional and neat finish.

For full details on application and installation, refer to all available documentation, installation details and the Quelfire Technical team.

SIZES

 310ml cartridge (25 per box)

ADDITIONAL DATA

Density	Ca. 1.23 – 1.33g/cm ³
Shore Hardness A	68
Colour	Black
Expansion Temperature	Ca. 180°C
Expansion Pressure	7 bar
Expansion	Up to 20 times
Skin Time	15 minutes at 25°C / 50% Relative Humidity
Cure Time	1.7mm per 24 hrs
Shelf Life	18 months unopened
pH	06 - 09
Air Permeability	600Pa – 100Pa 11.1/16.7 m ³ /h/m ²
Acoustics	Rw(C;Ctr): 52 (-1;-6) dB
Durability	Type Z ¹ , intended for use in internal conditions

PACKAGING AND STORAGE

QuelStop HPE Graphite Sealant is supplied in disposable cartridges, packaged in cardboard boxes and must be stored in ventilated, cool and dry conditions.

HEALTH & SAFETY

QuelStop HPE Graphite Sealant should be handled and applied wearing appropriate protective clothing, including gloves, dust mask, safety glasses, to guard against dust inhalation, eye and skin irritation.

For further information, please refer to the Material Safety Data Sheet, available on request.

Technical Support & Guidance:

Should you require any further information regarding this product, please do not hesitate to contact the technical department at Quelfire Ltd.

Tel: **0161 928 7308**. Email: technical@quelfire.co.uk

Please be aware that this document is intended for general information only and all details should be checked against all relevant supporting test evidence, certification and installation guidelines

Use of alternative components or deviations from the instructions in any way is likely to mean that the installation will not comply with the assessed rating.

Quelfire Ltd does not accept responsibility for the consequences of using Quelfire products in applications or for purposes not authorised by Quelfire Ltd. Expert advice should be sought where such applications are contemplated.

The policy of Quelfire Ltd is one of constant improvement. Installers should therefore ensure they are working from the latest published drawings and instructions. Whilst Quelfire will endeavour to keep its publications up to date, the accuracy of the information contained within this drawing may be affected by pertinent changes in the law or regulatory requirements and alterations or amendments to the specification of Quelfire products.

All information contained in this document is given in good faith and is provided for guidance only. Any drawings provided are for illustrative purposes only. As Quelfire Ltd has no control over the methods or competence of installation and of prevailing site conditions, no warranties, expressed or implied, is intended to be given as to the actual performance of the product mentioned or referred to herein and no liability whatsoever will be accepted for any loss, damage or injury arising from the use of the information given.

MATERIAL SAFETY DATA SHEET

Product name	Quelfire QI Intufoam Linear Gap Seal
Product Code(s)	QI25/30, QI50/30, QI50/45, QI75/45
Revision Date	01/01/2021
Revision number	02

Section 1: Identification of the substance/mixture and of the company / undertaking

1.1. Product identifier

Product name	Quelfire QI Intufoam Linear Gap Seal
Product Code	QI25/30, QI50/30, QI50/45, QI75/45

1.2. Relevant identified uses of the substance or mixture and uses advised against

Fire Protection

1.3. Details of the supplier of the safety data sheet

Company Name	Quelfire Limited Springvale Industrial Estate Millbuck Way Sandbach CW11 3HT
Tel	0161 928 7308
Fax	0161 924 1340
Email	technical@quelfire.co.uk

1.4. Emergency telephone number

Emergency telephone number 0161 928 7308 (Office hours only)

Section 2: Hazards Identification

2.1. Classification of the substance or mixture

Classification under CLP Not Classified

2.2. Label elements

This product has no label elements

2.3. Other hazards

This product is not identified as a PBT/ vPvB substance

Section 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

No data available

3.3. Article

Components – intumescent fire protection seal on the basis of graphite that expands in case of fire.

Section 4: First aid measures

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MATERIAL SAFETY DATA SHEET

4.1. Description of first aid measures

General	In case of doubt or persistent symptoms, always consult a physician.
Skin contact	Wash skin with plenty of water
Eye contact	Do not rub the eye. Rinse with immediately with plenty of water.
Ingestion	If ingested do not induce vomiting, drink plenty of water, seek medical attention
Inhalation	An inhalation hazard is not anticipated unless dust is generated. Move the affected person to the fresh air.

4.2. Most important symptoms and effects, both acute and delayed

Skin contact	Not expected to present a significant hazard under anticipated conditions of use.
Eye contact	Not expected to present a significant hazard under anticipated conditions of use.
Ingestion	Not expected to present a significant hazard under anticipated conditions of use.
Inhalation	Not expected to present a significant hazard under anticipated conditions of use.

4.3. Indication of any immediate medical attention and special treatment needed

Immediate/special treatment	Treat symptomatically
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Section 5: Fire-Fighting measures

5.1. Extinguishing media

Suitable Extinguishing Media	Water, CO2 and/ or dry powder
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5.2. Special hazards arising from the substance or mixture

Exposure hazards	Carbon oxides (CO, CO2). Phosphorus oxides.
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5.3. Advice for fire-fighters

Advice for fire-fighters	Do not attempt to take action without suitable protective equipment.
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Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Refer to section 8 'Exposure controls/ personal protection'.
--

6.2. Environmental precautions

Environmental	Do not allow entry to drains, sewers, water courses or soil.
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6.3. Methods and materials for containment and cleaning up

Clean-up procedures	Mechanically recover the product. Dispose in safe manner in accordance with local/ national regulations.
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6.4. Reference to other sections

Refer to section 8 'Exposure controls/ personal protection' and section 13 'Product Disposal'

Section 7: Handling and storage

7.1. Precautions for safe handling

MATERIAL SAFETY DATA SHEET

Handling requirements	Avoid the formation or spread of dust in the air Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	Store in a dry, cool and well-ventilated place. Protect against frost. Keep out of reach of children. Keep away from food, drink and animal feeding stuffs.
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7.3. Specific end use(s)

Specific end use(s)	No data available
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Section 8: Exposure controls/personal protection

8.1. Control parameters

Aluminium Silicate (Kaolin) (1332-58-7)	
United Kingdom	Local Name – Kaolin WEL TWA – 2 mg/m ³
Ireland	Local Name – Kaolin, respirable dust OEL (8 Hours ref) – 2 mg/m ³
Occupational Exposure limits/ workplace Exposure limits for particles not otherwise classified or regulated (nuisance dust)	Inhalable: 10mg/m ³ Respirable: 4mg/m ³
Additional Information	Ensure all national/ local regulations are observed.

8.2. Exposure controls

Respiratory protection	Not normally required for normal conditions of use. Use appropriate respiratory equipment when exposures are likely or can be foreseen to exceed the Occupational Exposure Limits or Workplace Exposure Limits for the UK. For exposures up to 10 times the OEL (WEL) use at least a P2 type duct mask. For higher exposure, use a P3 type mask.
Hand protection	Protective gloves
Eye protection	Avoid contact with eyes. Use safety glasses whenever tools are used, and dusts are produced.
Skin protection	Wear suitable protective clothing. Wash contaminated clothing before reuse.

Personal protective equipment symbol(s):



Environmental exposure controls:
Avoid release to the environment.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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MATERIAL SAFETY DATA SHEET

State	Solid
Colour	Grey
Odour	Odourless
Odour Threshold	No data available
pH	No data available
Relative evaporation rate (butylacetate=1)	No data available
Melting point	~70°C
Freezing point	No data available
Boiling point	No data available
Flash point	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (Solid, gas)	No data available
Vapour pressure	No data available
Relative vapour density at 20°C	No data available
Relative density	No data available
Density	~1.2g/cm ³
Solubility	Material nearly insoluble in water.
Log Pow	No data available
Viscosity, kinematic	No data available
Viscosity, Dynamic	No data available
Explosive Properties	Not explosive. If dust is formed: risk of dust explosion.
Oxidising properties	No data available
Explosive Limits	No data available

9.2. Other information

Not applicable

Section 10: Stability and reactivity

10.1. Reactivity

Stable under recommended transport or storage conditions

10.2. Chemical stability

Stable under normal conditions. Material foams up at approximately 200°C

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

High temperature. Avoid dust formation.

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

No data available

Section 11: Toxicological information

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MATERIAL SAFETY DATA SHEET

11.1. Information on toxicological effects

Acute Toxicity	Not classified. Dust from this product may cause irritation to the respiratory tract.
Skin corrosion/ irritation	Dust from this product may cause skin irritation.
Serious eye damage/ irritation	Dust from this product may cause eye irritation.
Respiratory or skin sensitisation	Not classified.
Germ cell mutagenicity	Not classified.
Carcinogenicity	Not classified.
Reproductive toxicity	Not classified.
STOT-single exposure	Not classified.
STOT-repeated exposure	Not classified.
Aspiration hazard	Not classified.

Section 12: Ecological information

12.1. Toxicity

No data available

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

No data available

Section 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	Disposal must be done according to official regulations.
Waste treatment methods	Dispose of contents/ container in accordance with licensed collector's sorting instructions

Section 14: Transport information

This product does not require a classification for transport

14.6. Special Precautions for user

Overland Transport	Not Applicable
Transport by sea	Not Applicable
Air transport	Not Applicable
Inland waterway transport	Not Applicable
Rail transport	Not Applicable

MATERIAL SAFETY DATA SHEET

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Contains no substance on the REACH candidate list.
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15.2. Chemical Safety Assessment

Chemical Safety Assessment	No chemical safety assessment has been carried out
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Section 16: Other information

Abbreviations and acronyms	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of dangerous goods by Road
ATE	Acute Toxicity Estimate
BLV	Biological Limit Value
CAS-No.	Chemical Abstract Service Number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 272/2008
EC-No.	European Community Number
EN	European Standard
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
NOEC	No-Observed Effect Concentration
PBT	Persistent Bioaccumulative Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
vPvB	Very Persistent and Very Bioaccumulative

Full text of H- and EUH statements:

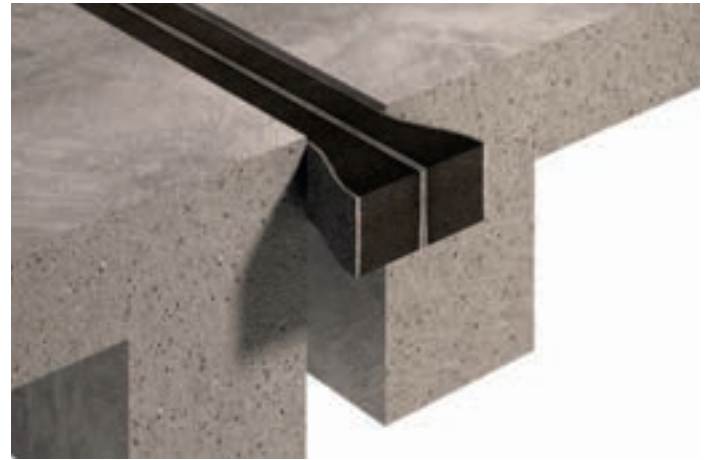
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2	Serious eye damage/ eye irritation, Category 2
Skin Irrit. 2	Skin Corrosion/ Irritation, Category 2
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.

Other information	This safety data sheet is prepared in accordance with REACH (Regulation (EC) No 1907/2006) and CLP (Regulation (EC) No 1272/2008). This product data sheet, for which safety information is given, does not contain substances of very high concern, substances of which use is restricted by the commission or substances on the candidate list of substances of very high concern for authorisation (last updated list of 15.01.2018). even if this article is not subjected to any obligation to
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MATERIAL SAFETY DATA SHEET

	classify or label (Art 4 Regulation (EC) No 1272/2008), Quelfire has decided to supply certain information about identification, first aid and release measures, exposure control, disposal and transport. This safety information supplies information to industrial and professional users on the safe use of this article.
Legal disclaimer	The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

This installation guide is intended for general information only and all details should be checked against relevant supporting test evidence and certification.



PERFORMANCE TABLE

For full details and performance information contact the Quelfire Technical Team. A summary of results is as follows:

Product Code:	Suitable for Gaps:	Range:	Width of the seal:	Floor or Wall:	Integrity:	Insulation:
QI25/30	10 to 25mm	15mm	30mm	Floor	120 minutes	120 minutes
QI50/30	25 to 50mm	25mm	30mm	Floor	60 minutes	60 minutes
QI50/45	25 to 50mm	25mm	45mm	Floor	90 minutes	60 minutes
QI75/45	40 to 75mm	35mm	45mm	Floor	60 minutes	30 minutes
QI25/30	10 to 25mm	15mm	30mm	Wall	90 minutes	60 minutes
QI50/30	25 to 50mm	25mm	30mm	Wall	60 minutes	25 minutes
QI50/45	25 to 50mm	25mm	45mm	Wall	90 minutes	30 minutes
QI75/45	40 to 75mm	35mm	45mm	Wall	60 minutes	30 minutes

INSTALLATION STEPS:

1. Ensure the correct product has been selected for the application – refer to the supporting documentation taking into consideration the following main points:
 - 🚫 The orientation – horizontal or vertical
 - 🚫 The wall/floor construction
 - 🚫 The gap size
 - 🚫 The required fire rating



- 2.** Check the gap size is within the scope of the product suitability



- 3.** Ensure the gap is free of any dust and contaminants and relatively smooth



- 4.** Compress the Intufoam by hand



- 5.** Keeping the Intufoam under compression, insert into the gap starting from one end and release



- 6.** Continue along the length compressing and inserting



- 7.** Ensure the flat (grey) intumescent faces are against the surfaces - not the compressible foam



- 8.** Ensure the Intufoam is set back 25mm from the edge of the construction



- 9.** Repeat with next length ensuring the ends are butted up tight to each other

- 10.** Where required the Quelfire Intufoam can be cut to length with a sharp knife

- 11.** Ensure the seal is complete, positioned correctly and all sections butted tight. (No extra work or products such as intumescent sealant are required from a fire performance perspective the Intufoam is a standalone, dry fit, linear gap seal



Technical Support & Guidance:

Should you require any further information regarding this product, please do not hesitate to contact the technical department at Quelfire Ltd.

Tel: **0161 928 7308**. Email: technical@quelfire.co.uk

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QI Intufoam Linear Gap Seal is a versatile fire resistant linear gap seal intended to provide a fire stop seal for linear joints or at the junction of compartment floors and walls. The compressible foam core accommodates different joint widths and a number of products are available providing different fire ratings, in different gaps and orientations.



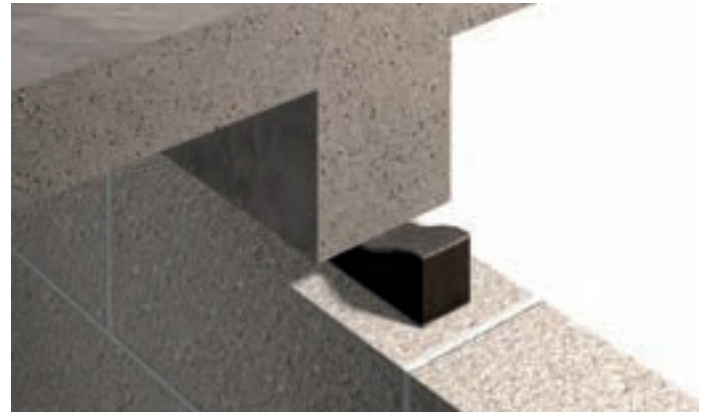
QI Intufoam Linear Joint Seal



QI Intufoam Linear Joint Seal installed between concrete slabs

FEATURES & BENEFITS

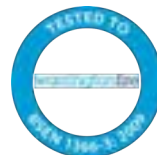
- ❏ Tested to BS EN1366-4:2006 + A1:2010 (Linear Gap Seals)
- ❏ Lightweight and easy to handle
- ❏ Provides various fire ratings
- ❏ Suitable for various gaps
- ❏ Compressible by hand
- ❏ Suitable for vertical joints in walls
- ❏ Suitable for horizontal joints in floors
- ❏ Suitable for horizontal joints at head of wall



QI Intufoam Linear Joint Seal installed as a head of wall detail

COMPOSITION




QI Intufoam Linear Gap Seal is manufactured from compressible foam, impregnated with fire retardant chemicals. The foam is then bonded to a graphite based intumescent material to form a composite seal. In the event of fire this expands to maintain the fire stop seal.



The Warringtonfire Logo displayed is the trademark of Warringtonfire registered in the United Kingdom. The Warringtonfire Logo is evidence that the products denoted as 'Tested by Warringtonfire' were tested to BSEN 1366-3: 2009 in England between September 22nd 2015 and January 7th 2021.

APPLICATION / INSTALLATION

The Intufoam system comprises of 1 metre lengths of a compressible foam core faced with a flexible intumescent material. Different products within the range have a different number of layers of materials. Intufoam provides a reliable, easily installed fire seal to resist the passage of fire through linear gaps between non-combustible surfaces. The product is tested as defined in the relevant test reports between concrete surfaces and its suitability for use in conjunction with other materials and in the intended application should be determined or verified by a suitably qualified fire engineer. Typical instances where the Intufoam may be considered are as follows:

-  Vertical joints in concrete walls.
-  Horizontal joints in concrete floors.
-  Head of wall to underside of a concrete floor.

Intufoam's excellent compression and recovery allows movement within the product, the minimum and maximum gap sizes are set out in the table below. In the event of a fire, the product will react and become a carbonaceous char sealing the gap.

Installation is by hand, the 1 metre lengths are simply compressed by hand and inserted in the linear gap where they will then expand holding themselves in place. The Intufoam should be positioned with a minimum of 25mm recess from the edge of the substrate – 25mm up from the underside of the concrete floor or 25mm back from the outer face of the wall. Individual lengths should be installed with a tight butt joint, end to end. Where necessary to complete the length, Intufoam can be cut with a sharp knife or saw before inserting into the gap.

PERFORMANCE TABLE

For full details and performance information contact the Quelfire Technical Team. A summary of results is as follows:

Product Code:	Suitable for Gaps:	Range:	Width of the seal:	Floor or Wall:	Integrity:	Insulation:
QI25/30	10 to 25mm	15mm	30mm	Floor	120 minutes	120 minutes
QI50/30	25 to 50mm	25mm	30mm	Floor	60 minutes	60 minutes
QI50/45	25 to 50mm	25mm	45mm	Floor	90 minutes	60 minutes
QI75/45	40 to 75mm	35mm	45mm	Floor	60 minutes	30 minutes
QI25/30	10 to 25mm	15mm	30mm	Wall	90 minutes	60 minutes
QI50/30	25 to 50mm	25mm	30mm	Wall	60 minutes	25 minutes
QI50/45	25 to 50mm	25mm	45mm	Wall	90 minutes	30 minutes
QI75/45	40 to 75mm	35mm	45mm	Wall	60 minutes	30 minutes

Technical Support & Guidance:

Should you require any further information regarding this product, please do not hesitate to contact the technical department at Quelfire Ltd.

Tel: **0161 928 7308**. Email: technical@quelfire.co.uk

Please be aware that this document is intended for general information only and all details should be checked against all relevant supporting test evidence, certification and installation guidelines.

Use of alternative components or deviations from the instructions in any way is likely to mean that the installation will not comply with the assessed rating.

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The policy of Quelfire Ltd is one of constant improvement. Details are subject to change and/or withdrawal without notification therefore you must ensure this is the latest published documentation. Whilst Quelfire will endeavour to keep its publications up to date, the accuracy of the information contained within this document may be affected by pertinent changes in the law or regulatory requirements and alterations or amendments to the specification of Quelfire products.

All information contained in this document is given in good faith and is provided for guidance only. Any drawings provided are for illustrative purposes only. As Quelfire Ltd has no control over the methods or competence of installation and of prevailing site conditions, no warranties, expressed or implied, is intended to be given as to the actual performance of the product mentioned or referred to herein and no liability whatsoever will be accepted for any loss, damage or injury arising from the use of the information given. Full terms and conditions can be accessed at: <https://quelfire.co.uk/terms-conditions-of-sale/>

CERTIFICATE OF CONSTANCY OF PERFORMANCE

Issued by DBI Certification, notified body No. 2531.

In compliance with *Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011* (the Construction Products Regulation or CPR), this certificate applies to the construction product

QuelStop Sealant Linear joint seal

Scope: Fire Stopping and Sealing Product: Linear Joint and Gap Seals

Placed on the market under the name or trade mark of:

**Quelfire Limited
Unit 3 Millbuck Way
Springvale Industrial Estate
Sandbach, Cheshire, CW11 3HT
United Kingdom**

and produced in the manufacturing plant:

CPA50052

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in the

ETA-20/1057 issued 2020-12-09 on the basis of EAD 350141-00-1106

under system 1 for the performance set out in the ETA are applied and that the factory production control conducted by the Manufacturer is assessed to ensure the


Constancy of performance of the construction product.

Date of issue: 2022-01-24.

This certificate will remain valid as long as neither the ETA, the EAD, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly unless suspended or withdrawn by the notified product certification body.

This certificate was first issued 2022-01-24.


Lene Skovbjerg
Responsible for evaluation


Thomas Anthony Wilson
Responsible for certification decision

The certificate shall be reproduced in extenso
– extracts only with written permission from DBI Certification A/S.

CERTIFICATE OF CONSTANCY OF PERFORMANCE

Issued by DBI Certification, notified body No. 2531.

In compliance with *Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011* (the Construction Products Regulation or CPR), this certificate applies to the construction product

QuelStop Sealant

Scope: Fire Stopping and Sealing Product: Penetration Seals

Placed on the market under the name or trade mark of:

**Quelfire Limited
Unit 3 Millbuck Way
Springvale Industrial Estate
Sandbach, Cheshire, CW11 3HT
United Kingdom**

and produced in the manufacturing plant:

CPA50052

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in the

ETA-20/1058 issued 2020-12-09 on the basis of EAD 350454-00-1104


under system 1 for the performance set out in the ETA are applied and that the factory production control conducted by the Manufacturer is assessed to ensure the


Constancy of performance of the construction product.

Date of issue: 2022-01-24.

This certificate will remain valid as long as neither the ETA, the EAD, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly unless suspended or withdrawn by the notified product certification body.

This certificate was first issued 2022-01-24.


Lene Skovbjerg
Responsible for evaluation


Thomas Anthony Wilson
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– extracts only with written permission from DBI Certification A/S.

DECLARATION OF PERFORMANCE

According to Annex III of Regulation (EU) Nr. 305/2011 (Construction Products Regulation)

QUELFIRE QSS – QUELSTOP ACRYLIC SEALANT

1. Unique identification code of the product-type:

Quelfire QSS Acrylic Sealant

2. Type, batch or serial number as required pursuant to Article 11(4):

See batch number displayed on the product

3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification:

Fire stopping and sealing product for penetration seals, see ETA 20/1058

Cable penetrations	Insulated & non insulated, cables, cable trays & cable ladders	The field of application has to comply with the content of the related ETA 20/1058
Pipe penetrations	Insulated & non insulated metal pipes	The field of application has to comply with the content of the related ETA 20/1058

4. Name, registered trade name or registered trademark and contact address as required pursuant to Article 11(5): Quelfire

Ltd, Unit 3, Millbuck Way, Springvale Industrial Estate, Sandbach, Cheshire, CW11 3HT,

Tel: 0161 928 7308, Email: sales@quelfire.co.uk

5. Authorised representative: n.a.

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V: System 1

7. Harmonised standard: n.a.

8. In the case of the declaration of performance concerning product covered by a Harmonised Standard and/or ETA:

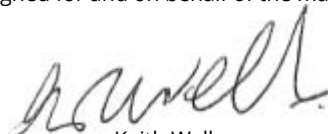
Warrington Certification Ltd issued ETA Number ETA 20/1058 on the basis of Guideline for European Technical Approval of Fire Stopping and Fire Sealing Products: EAD 350454-00-1104 Issue September 2017 performed initial and continuous surveillance of the place of manufacture and the factory production control implemented, sampled product and witnessed initial type testing under system 1 and issued the Certificate of Constancy of Performance

9. Declared performance:

Essential Characteristic	Declared performance/Harmonised technical specification
Reaction to fire	Class F according to EN 13501-1 see ETA 20/1058, Clause 3.1.1
Resistance to fire	Resistance to fire performance and field application in accordance with EN 13501-2 see ETA 20/1058, Clause 3.1.2
Air Permeability	Tested in accordance with BS EN1314-1, see ETA 20/1058, Clause 3.2.1
Dangerous substances	See ETA 20/1058, Clause 3.2.2
Airbourne Sound Insulation	Tested in accordance with EN ISO 10140-2:2010 & EN ISO 140-3 & EN ISO 717-1, see ETA 20/058, Clause 3.4.1 – Rw (C;Ctr) 38(-2;-7)
Durability and serviceability	Z ¹ (0/+40°C) intended for use at internal conditions with high humidity (85%) in accordance with EOTA Technical Report – TR024 See ETA 20/1058, Clause 3.3.1
Movement Capability	≤7.5% see Classification report 383750A, page 29

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 6. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer.



Keith Wells
Managing Director
Quelfire Ltd



Darryl Wells
Product Development
Quelfire Ltd

DECLARATION OF PERFORMANCE

According to Annex III of Regulation (EU) Nr. 305/2011 (Construction Products Regulation)

QUELFIRE QSS – QUELSTOP ACRYLIC SEALANT

1. **Unique identification code of the product-type:**
Quelfire QSS Acrylic Sealant
2. **Type, batch or serial number as required pursuant to Article 11(4):**
See batch number displayed on the product
3. **Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification:**
Fire stopping and sealing product for linear joint & gap seals, see ETA 20/1057

Linear Joint & Gap Seals	Horizontal & vertical linear joints in flexible wall constructions	The field of application has to comply with the content of the related ETA 20/1057
Linear Joint & Gap Seals	Horizontal & vertical linear joints in rigid wall constructions, rigid floor constructions, steel constructions & wood constructions	The field of application has to comply with the content of the related ETA 20/1057

4. **Name, registered trade name or registered trademark and contact address as required pursuant to Article 11(5):** Quelfire Ltd, Unit 3, Millbuck Way, Springvale Industrial Estate, Sandbach, Cheshire, CW11 3HT, Tel: 0161 928 7308, Email: sales@quelfire.co.uk
5. **Authorised representative:** n.a.
6. **System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:** System 1
7. **Harmonised standard:** n.a.
8. **In the case of the declaration of performance concerning product covered by a Harmonised Standard and/or ETA:**
Warrington Certification Ltd issued ETA 20/1057 on the basis of Guideline for European Technical Approval of Fire Stopping and Fire Sealing Products: EAD 350454-00-1104 Issue September 2017 performed initial and continuous surveillance of the place of manufacture and the factory production control implemented, sampled product and witnessed initial type testing under system 1 and issued the Certificate of Constancy of Performance
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Essential Characteristic	Declared performance/Harmonised technical specification
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Signed for and on behalf of the manufacturer.



Keith Wells
Managing Director
Quelfire Ltd



Darryl Wells
Product Development
Quelfire Ltd

QuelStop Intumescent Acrylic Sealant INSTALLATION INSTRUCTIONS

This installation guide is intended for general information only and all details should be checked against relevant supporting test evidence and certification.



QuelStop CE Marked Intumescent Acrylic Sealant forms part of a lifesaving system designed to prevent the spread of fire through compartment walls and floors, it is therefore essential that the product is installed in a responsible and workmanlike manner with life safety in mind.

QuelStop Intumescent Acrylic Sealant is a fundamental part of the QuelStop Fire Batt System and should be applied to all cuts, joints and exposed edges of the batt by simply pumping from the gun and then buttering or smoothing out with a spatula.

QuelStop Intumescent Acrylic Sealant can also be used for sealing directly around services such as cable, cable bundles, trays, ladders and non-combustible pipes, either as part of a seal directly within the wall substrate or as part of a QuelStop Fire Batt Seal in either case the annulus (the width of the seal around the service) and the depth of the seal is critical in providing the specified fire performance.

QuelStop Intumescent Acrylic Sealant can also be used as a linear joint seal in a range of applications between concrete and concrete, steel or softwood and also to a gypsum board headtrack and around wooden fire door frames. A mineral wool or PE backing rod, can be used as a backing material to ensure the correct depth of sealant is applied in order to achieve the required performance.

Key considerations before installing QuelStop Intumescent Acrylic Sealant:

- ❗ Ensure that the aperture, services or joint in question are tested with QuelStop Intumescent Acrylic Sealant and the site conditions are within the application specification.
- ❗ The supporting construction must be installed in accordance with the manufacturer's guidelines and must be capable of achieving the required fire rating of the firestop.
- ❗ All services should be adequately supported either side of the firestop to ensure that no load is transferred onto the firestop seal.
- ❗ Check that any services are compatible with the sealant - note for example that CPVC sprinkler pipes should not come into contact with non-approved sealants.
- ❗ Consider any movement that might occur in the joint to be sealed. This should include thermal, wind pressures, settlement and differential movement of components.
- ❗ Consider the performance capabilities of the sealant, movement capabilities, adhesion properties and chemical resistance, etc.

QuelStop Intumescent Acrylic Sealant INSTALLATION INSTRUCTIONS

- ⚠ Consider the location and environment of the joint to be sealed. Exposure to temperature extremes, ultraviolet light, chemical attack, standing water and vibration.
- ⚠ Ensure there is adequate space and accessibility to apply and tool the sealant.
- ⚠ Consider the use of backing materials to ensure the correct depth of the QuelStop Intumescent Acrylic Sealant is applied in order to achieve the required performance.
- ⚠ Where the QuelStop Intumescent Acrylic Sealant is being used in conjunction with other Quelfire products such as QuelStop Fire Batt and QRS Fire Sleeves, this document should be read in conjunction with the relevant supporting details and installation guides.
- ⚠ To determine an approximate quantity of QuelStop Intumescent Acrylic Sealant required for linear joint seals, calculate as follows: Gap Width in mm x Depth in mm x Total Length in metres ÷ 310 = Number of cartridges. (Remember to double the amount for both sides of the seal if the total length is measured singly) Please note that this is an approximate calculation and to be used for guidance only and an amount of wastage should be allowed for as Quelfire has no control of the application. It is the installer's decision on the amount of sealant that is required and Quelfire cannot be held liable for any orders of incorrect amounts.

YIELD

Joint Size (mm)	Depth of Sealant (mm)	Yield per 310ml Cartridge (m)	Yield per 600ml foil (m)
10	10	3.10	5.90
20	15	1.03	1.95
30	20	0.51	0.95

ADDITIONAL DATA

Slump	5mm after 1hour in 30mm joints	Application Temperature	+5°C to +40°C
Shrinkage	Approximately 12%	Tack Free	30 minutes at 23°C and 50% relative humidity
Cure Rate	3mm per day at 50% relative 23°C	VOC % Nonaqueous volatiles (105°C)	3.6
Specific Gravity	1.56 – 1.66 g/cm ³	Acoustic Rating	Up to Rw (C;Ctr) :63 (-2;-7) dB

Installation principles of QuelStop CE Marked Intumescent Acrylic Sealant

- ⚠ Before application, surfaces should be free of any dust, grease, debris and bond breaking contamination and consideration could be given to the use of a primer. On good, solid substrate priming is not normally required, though you should refer to the substrate compatibility requirements.
- ⚠ The sealant should not be applied if the ambient temperature is below 5°C or above 40°C, as the adhesion may be impaired.
- ⚠ The sealant should be pumped into position directly from an appropriate gun and installed to the specified annulus or gap.
- ⚠ A spatula, or similar instrument, can be used to gently compact the seal and ensure a smooth finish.

QuelStop Intumescent Acrylic Sealant INSTALLATION INSTRUCTIONS

Packaging & Storage:

QuelStop Intumescent Acrylic Sealant is supplied in disposable cartridges, packaged in cardboard boxes and must be stored in ventilated, cool and dry conditions.

Health & Safety:

QuelStop Intumescent Acrylic Sealant should be handled and applied wearing appropriate protective clothing, including gloves, dust mask, safety glasses, to guard against dust inhalation, eye and skin irritation.

For further information, please refer to the Material Safety Data Sheet, available on request.

Technical Support & Guidance:

Should you require any further information regarding this product, please do not hesitate to contact the technical department at Quelfire Ltd.

Tel: **0161 928 7308**. Email: technical@quelfire.co.uk

Please be aware that this document is intended for general information only and all details should be checked against all relevant supporting test evidence, certification and installation guidelines. Use of alternative components or deviations from the instructions in any way is likely to mean that the installation will not comply with the assessed rating.

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MATERIAL SAFETY DATA SHEET

Product name	QuelStop CE Marked Intumescent Acrylic Sealant
Product Code(s)	QSS310, QSS600
Revision Date	01/01/2021
Revision number	02

Section 1: Identification of the substance/mixture and of the company / undertaking

1.1. Product identifier

Product name	QuelStop CE Marked Intumescent Acrylic Sealant
Product Code	QSS310, QSS600
Type of Product	Sealant
Colour	White

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of Substance/Mixture	PC1: Adhesives, sealants.
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1.3. Details of the supplier of the safety data sheet

Company Name	Quelfire Limited Springvale Industrial Estate Millbuck Way Sandbach CW11 3HT
Tel	0161 928 7308
Fax	0161 924 1340
Email	technical@quelfire.co.uk

1.4. Emergency telephone number

Emergency telephone number	0161 928 7308 (Office hours only)
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Section 2: Hazards Identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]	Not Classified
Adverse physicochemical, human health and environmental effects	To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 [CLP]	EUH208 – Contains reaction mass of 5-chloro-2methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction. EUH210 – Safety data sheet available on request
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2.3. Other hazards

No additional information available

Section 3: Composition/information on ingredients

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MATERIAL SAFETY DATA SHEET

3.1. Substances

Not applicable

3.2. Mixtures

Name	Calcium Carbonate	Aluminium Hydroxide
Product Identifier	(CAS-No.) 471-34-1 (EC-No.) 207-439-9 (REACH-No.) 01-2119486795-18	(CAS-No.) 21645-51-2 (EC-No.) 244-492-7 (REACH-No.) 01-2119529246-39
%	30-50	10-30
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Not Classified	Not Classified

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact	Wash skin with plenty of water
Eye contact	Rinse eyes with water as a precaution
Ingestion	Call a poison centre or a doctor if you feel unwell.
Inhalation	Remove person to fresh air and keep comfortable for breathing

4.2. Most important symptoms and effects, both acute and delayed

Skin contact	There may be mild irritation at the site of contact
Eye contact	There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.
Ingestion	There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.
Inhalation	There may be irritation of the throat with a feeling of tightness in the chest.

4.3. Indication of any immediate medical attention and special treatment needed

Immediate/special treatment	Treat symptomatically
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Section 5: Fire-Fighting measures

5.1. Extinguishing media

Suitable Extinguishing Media	Water spray. Dry Powder. Foam. Carbon Dioxide
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5.2. Special hazards arising from the substance or mixture

Exposure hazards	Toxic fumes may be released
------------------	-----------------------------

5.3. Advice for fire-fighters

Advice for fire-fighters	Do not attempt to act without suitable protective equipment. Self-contained breathing apparatus. Complete proactive clothing.
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Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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MATERIAL SAFETY DATA SHEET

For Emergency responders	Do not attempt to act without suitable protective clothing - see section 8 'Exposure controls/ personal protection'.
For Non-emergency responders	Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid. Ventilate spillage area

6.2. Environmental precautions

Environmental	Avoid release to the environment
---------------	----------------------------------

6.3. Methods and materials for containment and cleaning up

Clean-up procedures	Take up liquid spill into absorbent material.
Other Information	Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

Reference to other sections	Refer to section 8 'Exposure controls/ personal protection' & Section 13 'Disposal considerations'.
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Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements	Ensure good ventilation of the workstation. Wear personal protective equipment. Avoid dust formation
Hygiene measures	Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	Store in cool, well ventilated area. Keep container tightly closed.
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7.3. Specific end use(s)

Specific end use(s)	No data available
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Section 8: Exposure controls/personal protection

8.1. Control parameters

Calcium Carbonate (471-34-1)	
United Kingdom – Occupational Exposure Limits	
WEL TWA (mg/m ³)	4 mg/m ³
WEL STEL (mg/m ³)	4 mg/m ³

Aluminium Hydroxide (21645-51-2)	
United Kingdom – Occupational Exposure Limits	
WEL TWA (mg/m ³)	10 mg/m ³
WEL STEL (mg/m ³)	4 mg/m ³

8.2. Exposure controls

Engineering measures	Ensure there is sufficient ventilation of the area
Personal Protective Equipment	Dust Formation, Dust Mask, Gloves

MATERIAL SAFETY DATA SHEET

Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment
Hand protection	Protective gloves
Eye protection	Safety glasses. Ensure eye bath is to hand.
Skin protection	Protective clothing

Personal protective equipment symbol(s):



Environmental exposure controls:
Avoid release to the environment.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State	Liquid
Appearance	Paste
Colour	White
Odour	No Data Available
Odour Threshold	No Data Available
pH	6.5 - 9
Relative evaporation rate (butylacetate=1)	No Data Available
Melting point	Not applicable
Freezing point	No Data Available
Boiling point	No Data Available
Flash point	No Data Available
Auto-ignition temperature	No Data Available
Decomposition temperature	No Data Available
Flammability (solid, gas)	Not applicable
Vapour pressure	No Data Available
Relative vapour density at 20°C	No Data Available
Relative density	No Data Available
Density	1.56 – 1.66 g/cm
Solubility	No Data Available
Partition coefficient n-octanol/ water (Log Pow)	No Data Available
Viscosity, Kinematic	No Data Available
Viscosity, dynamic	300000 – 900000 cP
Explosive properties	No Data Available
Oxidising properties	No Data Available
Explosive limits	No Data Available

9.2. Other information

No data available

Section 10: Stability and reactivity

10.1. Reactivity

MATERIAL SAFETY DATA SHEET

The product is non-reactive under normal conditions of use, storage and transport

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (See section 7)

10.5. Incompatible materials

Oxidising agents. Strong acids

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition should not be produced.

Section 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	Not classified
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Not classified

Calcium Carbonate (471-34-1)	
LD50 oral rat	>5000 mg/kg bodyweight Animal: rat, Animal sex: female, guideline: OECD Guideline 420 (acute Oral toxicity – Fixed Dose Method), Guideline: EU Method B.1 bis (Acute Oral Toxicity – Fixed Dose Procedure)
LC50 inhalation rat (mg/l)	>3 mg/l air Animal: rat Guideline OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: EU Method B.2 (Acute Toxicity (inhalation)), Guideline: EPA OPPTS 870.1300 (Acute Inhalation Toxicity)
NOAEL (oral, rat, 90 days)	1000 mg/l Animal: rat, Guideline OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Development Toxicity Screening Test)

Aluminium Hydroxide (21645-51-2)	
LD50 oral rat	>5000 mg/kg bodyweight Animal: rat, Animal sex: female, guideline: OECD Guideline 423 (Acute Oral Toxicity – Acute Toxic Class Method)
NOAEL (animal/male, F0/P)	1000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction/ Development Toxicity Screening Test)
NOAEC (Inhalation, rat, dust/mist/fume, 90 days)	0.07 mg/l air Animal: rat, Guideline: OECD Guideline 413 (sub chronic Inhalation Toxicity: 90-Day Study)

Skin corrosion/ Irritation	Not classified pH: 6.5 - 9
Serious eye damage/ Irritation	Not classified pH: 6.5 - 9
Respiratory or skin sensitisation	Not classified
Germ cell mutagenicity	Not classified

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Carcinogenicity	Not classified
Reproductive toxicity	Not classified
STOT-single exposure	Not classified
STOT-repeated exposure	Not classified
Aspiration hazard	Not classified

Section 12: Ecological information

12.1. Toxicity

Ecology – general	The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment
Hazardous to the aquatic environment, short term (acute)	Not classified
Hazardous to the aquatic environment, long term (chronic)	Not classified
Not rapidly degradable	

Calcium Carbonate (471-34-1)	
LC50 fish 1	>10000
EC50 Daphnia 1	>1000
EC50 72h algae (1)	>200 mg/l

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

QuelStop Intumescent Acrylic Sealant	
Bioaccumulative potential	Not potentially Bioaccumulative
Calcium Carbonate (471-34-1)	
Partition coefficient n-octanol/water (Log Pow)	<1

12.4. Mobility in soil

Ecology - soil	Readily absorbed into soil.
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12.5 Results of PBT and vPvB assessment

This substance/ mixture does not meet the PBT criteria of REACH Regulation, annex XIII
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12.6. Other adverse effects

No additional information available

Section 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	Disposal must be done according to official regulations.
Waste treatment methods	Dispose of contents/ container in accordance with licensed collector's sorting instructions

Section 14: Transport information

In accordance with ADR/ RID/ IMDG/ IATA/ ADN
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ADR	Not Applicable
RID	Not Applicable
IMDG	Not Applicable
IATA	Not Applicable
ADN	Not Applicable
No supplementary information available	

14.6. Special Precautions for user

Overland Transport	Not Applicable
Transport by sea	Not Applicable
Air transport	Not Applicable
Inland waterway transport	Not Applicable
Rail transport	Not Applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code.

Not Applicable

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH annex XIV substances
Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 th July 2012 concerning the export and import of hazardous chemicals
Contains no substance subject to Regulation (EU) No 209/1021 of the European Parliament and of the Council of 20 th June 2019 on persistent organic pollutants.

15.1.2 National Regulations

No additional information available

15.2. Chemical Safety Assessment

Chemical Safety Assessment	No chemical safety assessment has been carried out
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Section 16: Other information

Abbreviations and acronyms	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of dangerous goods by Road
ATE	Acute Toxicity Estimate
BLV	Biological Limit Value
CAS-No.	Chemical Abstract Service Number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 272/2008
DMEL	Derived Minimal Effect Level

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DNEL	Derived-No Effect Level
EC50	Median effective concentration
EC-No.	European Community Number
EN	European Standard
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative
WGK	Water Hazard Class

Full Text of H- and EUH- statement	
EUH208	Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.
EUH210	Safety Data sheet available on request

The Classification complies with ATP 12

Other information	This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.
Legal disclaimer	The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.